

GORSKI, Edward FIEDOROWICZ, Antoni SIKORSKI, Hanna SIKORSKA, Helena  
z Instytutu Medycyny i Biologii, Warszawa, 1962.

Studies on the protein metabolism in liver cirrhosis. Pol. arch.  
med. wewn. 32 no.10:1233-1242 '62.

1. Z II Kliniki Chorob Wewnętrznych PAM w Szczecinie Kierownik: prof.  
dr med. E. Górkowski i z Centralnego Laboratorium PSK Nr 1 w Szczecinie  
Kierownik: lek. med. H. Sliwńska.  
(LIVER CIRRHOSIS) (BLOOD PROTEINS)

GORZKOWSKI, Edward; NIECZAJEW, Andrzej; SZYMANSKA, Hanna

On the problem of the treatment of liver cirrhosis with prednisone.  
Pol. tyg. lek. 17 no.30:1185-1187 23 J1 '62.

1. Z II Kliniki Chorob Wewnętrznych P.A.M.; kierownik: prof. dr med.  
Edward Gorzkowski. Pol. tyg. lek. 17 no.30:1185-1187 23 J1 '62.  
(LIVER CIRRHOSIS) (PREDNISONE)

GORZKOWSKI, Edward; SZYMANSKA, Hanna; PAWLUK, Irena

Proteins in exudates, transudates and blood serum. New tests for the differentiation of transudates from exudates. Pol. arch. med. wewnet. 34 no.7:857-865 '64.

1. Z II Kliniki Chorob Wewn. Pomorskiej Akademii Medycznej w Szczecinie (Kierownik: prof. dr. med. E. Gorzowski).

L 47419-66 IJP(c) GG

ACC NR: AT6028776

SOURCE CODE: PO/2507/66/016/051/0009/0021

AUTHOR: Kulinski, J. --Kulinski, I. ; Gorzkowski, J. --Gozhkovski, I. 54

ORG: none BH

TITLE: Design of waveguide phase shifters with a laterally shifted dielectric 15

SOURCE: Warsaw. Przemyslowy Instytut Telekomunikacji. Prace. v. 16, no. 51,  
1966, 9-21

TOPIC TAGS: phase shifter, waveguide, critical wavelength, dielectric constant

ABSTRACT: Problems of designing waveguide phase shifters with a laterally shifted dielectric are discussed. Phase shifters of this type are built on the basis of a rectangular waveguide with the mode  $H_{01}$ . The dielectric insert placed in the waveguide causes the wavelength in the waveguide to change, i. e., the electrical length of the waveguide section which contains the dielectric insert changes. Approximate relations of effective dielectric permeability depending on the position and dimensions of the insert and on the dielectric constant are derived. The phase shifter must have great power and above-critical attenuation of the higher

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L 47419-66

ACC NR: AT6028776

wave modes. Both of these qualities depend on the lateral dimensions of the insert and on the dielectric constant of the material used to make the insert. The introduction into the waveguide of the dielectric insert causes the appearance of reflections from the ends and carrying supports. The insert ends must be provided with matching transformers, and supports with suitable diameters must be located in such a way that the reflections from them will compensate each other. The above considerations were used as a basis in designing the waveguide phase shifter with a laterally shifted dielectric. The results of measurements of this waveguide phase shifter make it possible to introduce empirical corrections to the equation on the wavelength in the waveguide with a dielectric insert near the side wall and in the middle of the waveguide. Orig. art. has: 8 figures, 35 formulas, and 1 table. [Based on authors' abstract] [NT]

SUB CODE: 17/ SUBM DATE: 25Apr65/ ORIG REF: 003/ OTH REF: 014/

Card 2/2 vlr

L 39919-66

ACC NR: AT6018333

SOURCE CODE: PO/2507/65/015/49-/0045/0056

AUTHOR: Gorzkowski, J. -- zhkovski, Yu.

37

ORG: none

B+1

TITLE: Controlled waveguide polarizer

SOURCE: Warsaw. Przemyslowy Instytut Telekomunikacji. Prace, v. 15, no. 49/50, 1965, 45-56

TOPIC TAGS: waveguide, rectangular waveguide, phase shifter, waveguide polarizer, polarizer

ABSTRACT: The paper deals with the basic principle of a variable waveguide polarizer built into a square waveguide. A smooth transition from the rectilinear to a square waveguide produces excitation in the latter of  $H_{10}$  and  $H_{01}$  waves of equal amplitude and phase. An adjustable

phase shifter changes the phase difference between the modes. As a result, an elliptically polarized wave is obtained in a square waveguide. The transition transmits elliptically the polarized wave to another square waveguide which is twisted 45 deg around the axis of the

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UDC:621.372.8

L 39919-50

ACC NR: AT6018333

first one and the walls of which are parallel to the walls of a rectangular waveguide. The elliptically polarized wave may be treated here as a wave composed of two new waves differing in phase by 90 deg, with an amplitude which may be effected by adjusting the phase shifter. The second phase shifter permits a change in the phase difference between these two waves by changing simultaneously the position of ellipse-axis angle. The polarizer is so designed that it can produce an arbitrary polarized wave. The phase shifter of a square waveguide has dielectric plates. An experimental polarizer was designed for the 8-mm band in a square waveguide of 4.9 x 4.9 mm. The measurements show good performance by the polarizer. The latter permits a circular polarization ratio of 0.99 and a linear polarization ratio 0.1 in both the vertical and horizontal planes. Orig. art. has: 9 figures and 62 formulas. [Based on author's abstract] [NT]

SUB CODE: 20/ SUBM DATE: 26Jun64/ ORIG REF: 002/ OTH REF: 003/

  
Card 2/2

Abdominal rheumatism Polsk. Tyg. Lek. 1953, 8/8 (293-295)

Clinical pictures of abdominal rheumatism are described: (1) a form resembling acute or chronic appendicitis, (2) a form with a syndrome suggesting peritonitis, pancreatitis or paranephritis, (3) a form with atypical gastric symptoms, (4) a form with diarrhoea and (5) a form with disorders in swallowing.

Bojanowicz - Lodz

SO: EXCERPTA MEDICA, Section VI, Vol. 8, #1, January 1954



GORKOWSKI, T.

Effect of thyroid preparations on simple goiters. *Polaki tygod.*  
lek. 8 no. 44:1501-1504 2 Nov. 1953. (OIML 25:5)

1. Of the Third Internal Clinic (Head— Prof. Macław Markert, M.D.)  
of Leds Medical Academy.

GORZKOWSKI, T.

Pathology of puberal period. Med. pracy 6 no.3:159-167 1955.

1. Z III Kliniki Chorob. Wewnętrznych A.M. w Łodzi. Kierownik:  
prof. dr Med. W. Markert.  
(PUBERTY, pathology)

GORZKOWSKI, Tadeusz.

Effect of decoction of *Poria obliqua* on growth of transplanted Crocker's sarcoma in mice. Pat. polska 6 no.4:293-299 Oct-Dec 55.

1. Z III Kliniki Chorob Wewnętrznych A.M. w Łodzi. Kierownik: prof. dr. W. Markert.

(NEOPLASMS, experimental,

Crocker's sarcoma, eff. of *Poria obliqua* decoction (Pol))

(FUNGI,

*Poria obliqua* decoction, eff. on Crocker's sarcoma in mice (Pol))

(SARCOMA, experimental,

Crocker's sarcoma, eff. of *Poria obliqua* decoction (Pol))

GORZKOWSKI, Tadeusz.

Hypothyroidism. Polski tygod.lek. 10 no.20:647-652 16 May '55.

1. Z III Kliniki Chorob Wewnętrznych A.M. w Łodzi; kierownik:  
prof.dr med. W. Markert. Łódź, ul. Narutowicza 109 b.  
(HYPOTHYROIDISM, therapy)

GORZKOWSKI, Tadeusz

Effect of adrenal steroids and adrenocorticotrophic hormone on the course of certain diseases of the hemopoietic system. Polskie arch.med.wewn. 30 no.6:778-781 '60.

1. Z III Kliniki Chorob Wewnętrznych A.M. w Łodzi Kierownik:  
prof. dr med. W.Markert.  
(ADRENAL CORTEX HORMONES ther)  
(BLOOD DISEASES ther)

ACC NR: AP6026388

(N)

SOURCE CODE: GE/0030/66/015/001/K009/K011

AUTHOR: Gorzkowski, W.

ORG: Institute of Physics, Polish Academy of Sciences, Warsaw

TITLE: Remark on the generalization of Kane's model of the band structure of HgTe

SOURCE: Physica status solidi, v. 15, no. 1, 1966, K9-K11

TOPIC TAGS: valence band, conduction band, mercury compound, tellurium compound, semiconductor band structure

ABSTRACT: Three particular cases of the role of the parameters in the secular equation for the interaction matrix for the unperturbed valence band ( $p$ -symmetry) and the two lowest unperturbed conduction bands ( $s$ - and  $p$ -symmetry) are examined. The equation being discussed was derived earlier by the author (*Phys. stat. sol.*, 11, K131 (1965)). The cases are:  $\gamma = \delta = 0$ ;  $\gamma = 0$ ,  $\delta$  arbitrary;  $\gamma$  and  $\delta$  arbitrary. The analysis concludes that if only interactions between the three bands are being considered, only the third case is of practical significance. The effective masses in the first two cases are equal to the mass of the free electron and this contradicts experiments. The author thanks Dr. M. Miasek and Dr. J. Ginter for many valuable discussions and remarks. Orig. art. has: 6 formulas.

SUB CODE: 20/ SUBM DATE: 22Mar66/ OTH REF: 002

Card 1/1

L 29995-66 T IJP(c) AT

ACC NR: AP5024762

SOURCE CODE: GE/0030/65/011/002/K131/K134

P0

AUTHOR: Gorzkowski, W.

ORG: Institute of Physics, Polish Academy of Sciences, Warsaw

TITLE: Remark on the generalization of Kane's model of the band structure of HgTe

SOURCE: Physica status solidi, v. 11, no. 2, 1965, K131-K134

TOPIC TAGS: crystal lattice structure, crystal symmetry, semiconductor band structure, mercury compound, telluride

ABSTRACT: HgTe, a compound of the ZnO-type, is representative of a new class of semiconductors having zero thermal and non-zero optical gaps. Kane investigated the band structure of ZnO-type compounds by starting with the Schroedinger equation

$$\left[ \frac{\hbar^2 k^2}{2m} + V + \left( \frac{\hbar}{m} \right) \mathbf{p} \cdot \mathbf{g} + \left( \frac{\hbar}{4m^2 c^2} \right) (\nabla \mathbf{V} \times \mathbf{g}) \cdot \vec{\sigma} + \left( \frac{\hbar^2}{4m^2 c^2} \right) (\nabla \mathbf{V} \cdot \mathbf{g}) \cdot \vec{\sigma} \right] u_{\mathbf{g}}(\mathbf{r}) = E'_{\mathbf{g}} u_{\mathbf{g}}(\mathbf{r}), \quad (1)$$

$$E'_{\mathbf{g}} = E_{\mathbf{g}} - \left( \frac{\hbar^2}{2m} \right) \mathbf{g}^2,$$

where  $E_{\mathbf{g}}$  denotes the energy of a state with a wave vector and  $u_{\mathbf{g}}(\mathbf{r})$  gives the cell-periodic function. He assumes that solutions of  $\left[ \frac{\hbar^2 k^2}{2m} + V \right] u_i = E_i u_i$

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ACC NR: AP5024762

are known. These are used as unperturbed solutions of (1) and the effect of other terms is taken into account by a perturbation calculation by considering the interaction between the valence band and one conduction band. Then the effect of other bands is considered and the interactions given by the 5-th term in (1) are noted. Consider the interaction between three bands: a valence band with symmetry  $p$ , a conduction band with symmetry  $s$  and another conduction band with symmetry  $p$  as a generalization of Kane's model. Take the wave vector  $R$  in the  $s$  direction and consider the Hamiltonian corresponding to the first four terms of equation (1). The matrix of the interactions has the form

$$\begin{bmatrix} \chi(s) & 0 \\ 0 & \chi(s) \end{bmatrix}$$

$\chi(s)$  can be expressed as a matrix using symmetries due to the geometry of the crystal and time reversal. The secular equation cannot be solved exactly but for  $R=0$ , the secular equation is solved exactly for the matrix  $\chi(0)$  giving five roots. The solution for small  $R$  will be given in a future paper. The author wishes to thank Dr. M. Miasek for suggesting the present work and for very valuable discussions and Professor M. Suffczyński for many discussions. Orig. art. has: 8 formulas.

SUB CODE: 20/ SUBM DATE: 04Sep64/ OTH REF: 002

Card -2/2 *Jo*



GORZKOWSKI, Włodzimierz, mgr inż.

New method of backing off of milling cutters. Mechanik 34 no.9:469-470 '61.

GORZKOWSKI, Włodzimierz, mgr. inż.

"Calculation of springs for the switching off of the friction clutch with hydraulic control" by N. Niberg. Reviewed by Włodzimierz Gorzkowski. Przegl mech 21 no.12:382. 25 Je '62.

GORZKOWSKI, Waldemar

Space group of marcasite  $D_{2h}^{21}$  (Pnmm). Acta physica Pol  
25 no. 4:527-542 Ap '64.

1. Institute of Theoretical Physics, Polish Academy of Sciences, Warsaw.

DOBROWOLSKA, Halina; przy wspolpracy techn.: FUCHS, R.; CACKOWSKIEJ, G.;  
GORZKOWSKIEJ, T.

Studies on the immunizing activity of a bivalent oral vaccine prepared  
from Koprowski's strains CHAT (type 1) and Fox (type 3). Przegl.  
epidem. 15 no.3:257-264 '61.

1. Z Zakladu Wirusologii PZH Kierownik: prof. dr F.Przesmycki.  
(POLIOMYELITIS immunol) (VACCINATION)

GORZOV, P.

[Our collective farm buildings; practices of a collective farm  
building brigade] Nash kolhospnyi dvir; s dosvidu robotu  
kolkhospnoi budivelnoi bryhady. Ushhorod, Zakarpatske obl. vyd-vo,  
1957. 37 p. (MIRA 11:5)  
(Ukraine--Farm buildings)

GORZUCKI, ZENON, ed.

Najnowsze samoloty wojskowe USA, Anglii, Francji, Kanady, Włoch, Szwecji, Holandii, Hiszpanii, Szwajcarii.

Warszawa, Poland      Wydawn. Ministerstwa Obrony Narodowej 1959. 335p.

Monthly List of East European Accessions, (EEAI) LC, Vol. 9, No 1, Jan. 1960  
Uncl.

GORZYM, H.; JANISZEWSKI, L.; NAREBSKI, J.; OLEJARCZUK, G.; SZAWIOWSKA, Z.

Effect of ethyl alcohol on EEG and chronaxy of the vestibular apparatus in rabbits. Acta physiol. polon. 8 no.3:339 1957.

1. Z Zakladu Neurofizjologii i Fizjologii Porownawczej Uniwersytetu M. Kopernika w Toruniu. Kierownik: prof. dr J. Hurynowicz.

(ALCOHOL, ETHYL, effects,

on EEG & vestibular chronaxy (Pol))

(ELECTROENCEPHALOGRAPHY,

eff. of ethyl alcohol in rabbits (Pol))

(VESTIBULAR APPARATUS, physiology,

chronaxy, eff. of ethyl alcohol in rabbits (Pol))

CZERWINSKI, Zdobyslaw; GORZYNSKA, Adela

Further state of patients after pneumothorax treatment with partial pneumolysis. Gruslica 24 no.8:741-748 Aug 56.

1. Z Kliniki Fizjatrycznej A.M. w Lodzi, Kierownik: prof. dr. J. Stopczyk.

(COLLAPSE THERAPY

pneumonolysis & pneumothorax, late results)

(PNEUMOTHORAX, ARTIFICIAL

with pneumonolysis, late results)



GORZYŃSKA, J.

POL

3454 608,137.31  
 Gorzyńska J. Isolation of High-Grade Anthracene and Carbazole from  
 Raw Anthracene

"Wydobycie wysokoprocentowego antracenu i karbazolu z surowca antracenu", Przemysł Chemiczny, No. 8, 1954, pp. 411-415, 3 figs., 1 tab.

A new creol-phenate method is described, by means of which it is possible to isolate from raw anthracene 97 per cent pure carbazole, free from phenanthrene. Productivity is 6.6 per cent of the total amount of raw anthracene used (nearly 100 per cent). Anthracene of 91 per cent purity is obtained at the same time, productivity being 20.0 per cent of the quantity of raw anthracene. The method is suitable for introduction on an industrial scale, if cyclical circulation of the substance used in the process is used.

11A 132

S/081/62/000/023/072/120  
B144/B186

AUTHORS: Górzyńska, Janina, Maciejewski, Ryszard

TITLE: A method of obtaining a transparent conductive coating on articles made of glass, ceramics, quartz and other high-temperature resistant materials

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 23, 1962, 504, abstract 23K534 (Pol. patent, 44523, May 24, 1961)

TEXT: The method consists in atomizing compounds of metals with varying valency, such as Cu, Ag, Zn, Cd, Hg, Al, Ga, In, Ta, Ge, Sn, Pb, As, Bi, Se, Te, Fe, Ni, Co, Si with addition of catalytic reducing agents (organic compounds, e.g. metol, pyrogallol, pyrocatechol, hydroquinone, and hydroxy anthraquinone). By this method highly resistant coatings are obtained.

[Abstracter's note: Complete translation.]

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GORZYNSKA, J.

Poland/Chemical Technology - Chemical Products and Their Application. Treatment of Solid Mineral Fuels, I-12

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62539

Author: Gorzynska, J., Majewska, H., Werle, J.

Institution: None

Title: Physicochemical Investigation of Low Temperature Tar

Original

Periodical: Z badan nad fizykochemia smoly niskotemperaturowej, Przem. chem., 1955, 11, No 10, 575-579; Polish; Russian and English resumes

Abstract: Presented are the characteristic and composition of semicoking coal tar. Distillations of crude oil are used as examples in considering the possibility of formation of various types of azeotropic mixtures. An attempt is made to effect partial separation of fractions by azeotropic distillation with phenol and acetic acid. Noted are the differences between petroleum, high and low temperature tars from the standpoint of the formation of polyazeotropic mixtures. It is shown that acetic acid forms with mesitylene an azeotropic mixture boiling  $0.03^{\circ}$  lower than acetic acid.

Card 1/1

GORZYNSKA, J.

Problem of the hybridization of yeast. p. 39.  
PRZEMYSŁ SPOŻYWCZY, Warszawa, Vol. 9, no. 1, Jan. 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955,  
Uncl.

سرگرمی کا

✓ Rapid method for determination of stability of pressed yeast. *Indyga Goryshin. Proc. Inst. Lab. Hadenovsk. Prirodnykh Resursov, Moscow 6, No. 2, 34-36 (1976) (English summary).* Two methods were worked out. The first one was based on detn. of the protein-N content by means of Sorenson's method. The following correlations were obtained: stability above 90 hrs., 2.32-0.61 mg./100 ml.; stability of 66 hrs., 0.6-0.8 mg./100 ml.; stability less than 66 hrs., over 10 mg./100 ml. The 2nd method was based on glycogen content detn. by means of the same method. The following correlations were obtained: stability above 90 hrs., more than 5%; stability of 66 hrs., 4-6%; stability less than 66 hrs., less than 4%. *Alina S. Serebrenik.*

GORZYNSKA, JADWIGA

Poland/Chemical Technology. Chemical Products and Their Application -- Fermentation industry, I-27

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 6464

Author: Gorzynska, Jadwiga

Institution: None

Title: Development of a Rapid Procedure for Determining the Stability of Baker's Yeast

Original

Publication: Przem. spozywczy, 1956, 10, No 4, 181-182

Abstract: Experimental storage of pressed baker's yeast (Y) at 35, 40, 45 and 50° has revealed the absence of a relationship between stability of Y, temperature of storage and increase in amino-nitrogen during the period of storage, and, conversely, the existence of a correlation between the initial content of amino-nitrogen or glycogen in the Y and stability of the latter. It was found that the amino-nitrogen content is: in Y of above-standard stability 2.2-6.5 mg/g; in Y of standard range stability, 6.5-9.8 mg/g and in Y of below-standard

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Poland/Chemical Technology. Chemical Products and Their Application -- Fermentation industry, I-27

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 6464

Abstract: stability, >10 mg/g. The reverse phenomenon is observed as concerns the glycogen content, which decreases with decreasing stability of Y and amounts to, respectively: in the first group >5%; in the second group 4-5%; and in the third group <4%. In the event that these data are confirmed by large scale industrial checks, the suggestion is made that the prolonged and relative procedure of determining Y stability by storage at 35°, be replaced by the method of determining the amino-nitrogen content of the Y (duration of determination <1 hour) or of its glycogen content (duration of determination ~6 hours).

Card 2/2

GORZYNSKA, J.

~~Experiments on the production of new yeast strains by crossing. Acta~~  
microb. polon. 6 no.2: 189-206 1957.

1. Z Instytutu Przemysłu Fermentacyjnego w Warszawie. Wpłynęło dnia  
13 czerwca 1956 r.

(YEAST)

prod. of new strains by crossing (Pol))



POLAND/Microbiology - General Microbiology. Variability  
and Heredity

F

Abs Jour : Ref Zhur Biol., No 22, 1958, 99291

Author : Gorzyska, J.

Inst :

Title : Production of New Breeds of Yeasts by Way of Hybridiza-  
tion.

Orig Pub : Przem. spozywczy, 1957, 11, No 5, 216

Abstract : Produced were artificial crossings of two breeds of  
baking yeasts ASx Lyubon' and distiller's yeasts Ia x  
O-11. The described method of crossing differs somewhat  
from the methods of Vinge and Laustsen. The hybrids ob-  
tained of the baking yeasts G and the distiller's yeast  
S<sub>1</sub>, by comparison with their original strains, did not  
possess a greater productive value. Productivity of the  
other hybrid (B) of the same baking yeasts exceeded the  
average yearly productivity of strain AS by 6% and of

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POLAND/Microbiology - General Microbiology. Variability  
and Heredity.

Abs Jour : Ref Zhur Biol., No 22, 1958, 99291

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000516410018-5  
strain Lyubon' by 10%. On the basis of this, and also  
on the basis of other properties, hybrid B is recommen-  
ded for production. -- S.Ya. Feygina

Card 2/2

POLAND/Chemical Technology - Chemical Products and Their  
Applications - Fermentation Industries.

H.

Abs Jour : Ref Zhur - Khimiya, No 11, 1958, 37751

POLAND /Chemical Technology - Chemical Products and Their  
Applications - Fermentation Industries.

H.

Abs Jour : Ref Zhur - Khimiya, No 11, 1958, 37751

previously obtained data as established by comparative  
aging resistance determinations of plant made (PY), by  
above described and standard methods, for a period of  
several months.

Card 2/2

27

GORZYNSKA, Jadwiga

The introduction of collections of classified brewers' yeast  
and the determination of their technological properties.  
Prace instytut i labor bad przem spoz l2 no.1:11-17 '62.

1. Instytut Przemyslu Fermentacyjnego, Zaklad Technologii Piwa i  
Slodu, Warszawa, ul. Rakowiecka 8.

GORZYNSKA-FAJER, Irena; NIZNIKOWSKA-MARKS, Janina; SLOMOWNA, Barbara;  
WOCJAN, Juliusz

A case of platybasia associated with Arnold-Chiari syndrome.  
Pediat. Pol. 40 no.9:983-985 S '65.

1. Z Kliniki Diagnostyki Chorob Dzieci AM w Warszawie (Kierownik:  
prof. dr. med. Z. Lejmbach), z Zakładu Radiologii Pediatricznej  
(Kierownik: prof. dr. med. K. Rowinski) i z Kliniki Neurochirurgii  
AM w Warszawie (Kierownik: prof. dr. med. L. Stepień).

MAJSKA- WANIEWSKA, Izabela; GORZYNSKI, Czeslaw; BRAUNER, Gerard.

The value of dulcolax in the preparation of patients for urography. Pol. tyg. lek. 18 no.43:1605-1606 21 0'63.

1. Z Zakladu Radiologii AM w Lodzi (kierownik, vacat, kurator: doc.dr.med. L.Mazurek) i z Oddzialu Urologicznego Panstwowego Sanatorium P/gruzlicznego w Tuszyngu (ordynator: doc.dr.med. L.Mazurek).

\*

STAPOR, Karol; GORZYNSKI, Czesław

Apropos of pyelo-renal reflux. Pol. pr. egJ. radiol. 28 no.3:  
233-242 My-ye '64

1. Z Oddziału Urologicznego I Kliniki Chirurgicznej Akademii  
Medycznej w Łodzi (Kierownik: prof. dr. med. M. Stefanowski)  
oraz z Zakładu Radiologii Akademii Medycznej w Łodzi (Kurator  
Zakładu: doc. dr. med. L. Mazurek).

BAC, Kazimierz, inz.; DZWONIK, Ryszard, inz.; GORZYNSKI, Sławomir, mgr  
inz.; MIESZCZAK, Stanisław, mgr inz.

Five years of activities of the Office for Radio and Tele-  
vision Studies and Designing in Warsaw. Przegl telekom 36  
[i.e. 37] no. 4:106-113 Ap '64.

GORZYNSKI, S.

"Protecting birchwood and beechwood from infusion and putrefaction." (To be contd.) p. 3.  
(Przemysl Drzewny, Vol. 4, no. 5, May 53, Warszawa)

SO: Monthly List of East European Accessions, Vol 3 No 6 Library of Congress Jun 54 Uncl



GORZYNSKI, S.

"Protecting beechwood and birchwood against infusion and putrefaction." (Conclusion)  
p. 6. (Przemysl Drzewny, Vol. 4, no. 7, Jul 53, Warszawa)

SO: Monthly List of East European Accessions, Vol 3 No 6 Library of Congress Jun 54 Uncl

GORZYNSKI, S.

"Conservation of Half-Finished Products Made of Birchwood and Beechwood in Saw Mills."

p.1

(PRZEMYSŁ DRZEWNY Vol. 4, no. 8, Aug. 1953 Warszawa, Poland)

SO: Monthly List of East European Accessions, LC, Vol. 3, no. 5, May 1954/Uncl.

GORZNYSKI, S.

The problem of producing dry plank, p. 2, (PRZEMYSŁ DRZEWNY, Warszawa, Vol. 6, no. 2, Feb. 1955.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. <sup>6</sup>1, Jan. 1955, Uncl.

GORZYNSKI, S.

Outline of works for the navigability and regulation of the  
Vistula and its affluents in the 13th-18th centuries. p. 144.  
GOSPODARKA WODNA, Warszawa. Vol. 16, no. 4, Apr. 1956.

SOURCE: East European Accessions List (EEAL) Library of Congress  
Vol. 5, no. 8, August 1956.

GORZYNSKI, S.

TECHNOLOGY

Periodicals: NORMALIZACJA. Vol. 26, no. 2, Feb. 1958

GORZYNSKI, S. Polish Standard PN-57/D-03003 . Sawed materials; excesses for drying. p. 79.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 2,  
February 1959, Unclass.

GORZYNSKI, S.

TECHNOLOGY

Periodicals: NORMALIZACJA. Vol. 26, no. 6/7, June/July 1958

GORZYNSKI, S. Remarks on Standard PN-57/D-96000 "Confiferous Lumber for General Purposes." p. 311.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 2,  
February 1959, Unclass.

GORZYNSKI, STEFAN

Zasady konserwacji tarcicy na skladach (Principles of lumber preservation in storage)  
p.87

Monthly Index of East European Accessions (IEAI) IC, Vol. 8, No. 1, Jan. 59

GORZYNSKI, S.

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PRZEGŁAD GEODEZYJNY. Warszawa, Poland. Vol. 15, no. 6, June 1959.

Monthly List of East European Accessions Index (EEAI), LC. Vol. 8, No. 9, September 1959  
Uncl.



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Polish 18th century capacity standards. Pomiary 7 no.10:423 0 '61.

(Poland—Mensuration)

GORZYNSKI, Zygmunt

Methods and preliminary results of prospecting for aluminum raw materials in Upper Silesia. Przegl geol 11 no.11:483-486 N '63.

1. Instytut Geologiczny, Warszawa.

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121 p. diagrs.

AB 521464

N/5  
653.221  
.G6

GOS, M. E.

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SO: Knizhnaya Letopis' No. 50 10 December 1955. Moscow.

*gos. M.E.*

GERMAN-PROZOROVA, Lyutsiya Pavlovna; VIINOGRADOVA, Nina Ivanovna; KREYTSEER, V.L. prof. doktor tekhn.nauk, red.; *gos. M.E.*, kand.tekhn.nauk, red.; KARPOV, V.G., kand.tekhn.nauk, red.; MALAKHOV, I.K., inzh., red.; LEVIT, A.B., inzh.red.; LEPESHINSKAYA, Ye.V., red.; BRUDNO, K.F., tekhn.red.

[English-Russian radiotechnical dictionary] Anglo-russkii radio-tekhnicheskii slovar'. Pod obshchei red. V.L.Kreitsera. Red. kollegiia: M.E.Gos i dr. Moskva, Gos.izd-vo tekhniko-teoret. lit-ry, 1957. 524 p. (MIRA 11:2)  
(Radio--Dictionaries)  
(English language--Dictionaries--Russian)

GOS, M.E., kand.tekhn.nauk; KREYTSER, V.L., prof., doktor tekhn.nauk;  
SAAKOV, E.O., dotsent, kand.tekhn.nauk

[Radio amplifiers; course of study, supplementary material,  
problems, and course outline] Usilitel'nye ustroistva;  
programma, dopolnenie, kontrol'nye zadaniia i kursovoi proekt.  
Fakul'tet: radiotekhnicheskii. Leningrad, 1958. 35 p. (MIRA 12:1)

1. Severo-zapadnyy zaachnyy politekhnicheskii institut. Kafedra  
konstruirovaniya radioapparatury. 2. Zaveduyushchiy kafedroy  
konstruirovaniya radioapparatury, Severo-zapadnyy zaachnyy poli-  
tekhnicheskii institut (for Kreytser).  
(Radio amplifiers)

GERMAN-PROZOROVA, Lyutsiya Pavlovna; VINOGRADOVA, Nina Ivanovna; KREYTSER, V.L., prof., doktor tekhn.nauk, red.; GOS, M.E., kand.tekhn. nauk, red.; KARPOV, V.G., kand.tekhn.nauk, red.; LEVIT, A.B., inzh., red.; MALAKHOV, I.K., inzh., red.; LEPESHINSKAYA, Ye.V., red.; BRUDNO, K.F., tekhn.red.

[English-Russian radio engineering dictionary] Anglo-russkii radiotekhnicheskii slovar'. Pod obshchei red. V.L.Kreitsera. Red. kollegiia: M.E.Gos i dr. Moskva, Glav.red.inostr.nauchno-tekhn. slovari, 1960. 524 p. (MIRA 13:?)  
(Radio--Dictionaries)  
(English language--Dictionaries--Russian language)

GERMAN-PROZOROVA, Lyutsiya Pavlovna; YANKEL'SON, I.S.; KRETTSER, V.L.,  
prof., doktor tekhn.nauk, red.; GOS, M.E., kand.tekhn.nauk,  
red.; LEPESHINSKAYA, Ye.V., red.; KRYUCHKOVA, V.N., tekhn.red.

[English-Russian television dictionary] Anglo-russkii slovar'  
po televideniiu. Pod obshchei red. V.L.Kreitsera pri red.uchastii  
M.E.Gosa. Moskva, Glavnaia red.inostr.nauchno-tekhn.slovari  
Fizmatgiz, 1960. 427 p. (MIRA 14:3)

(Television--Dictionaries)

(English language--Dictionaries--Russian language)



ZUSMANOVICH, Vera Mikhaylovna; GOS, M.E., red.

[Light and color in television] Svet i tsvet v televi-  
denii. Moskva, Izd-vo "Energia," 1964. 204 p.  
(MIRA 17:6)

BRUDA, P., conf.; BERARIU, T., dr.; SIMPLACEANU, L., dr.; GOSA, C., dr.;  
CHIOREANU, V., chim.; CAPINA, S., chim.

Contribution to the study of the metabolism disorders in urinary  
lithiasis. Med. intern., Bucur 12 no.12:1795-1804 D '60.

1. Lucrare efectuata la Clinica urologica Cluj (director, conf.  
P. Bruda), catedra de biochimie Cluj (prof. I. Manta), catedra de  
anatomie patologica Cluj (prof. A. Muresanu), catedra de bacteriologie  
Cluj (prof. Gh. Badenschi), catedra de fizica medicala Cluj (conf.  
R. Opreanu).

(URINARY CALCULI etiology) (NEPHRITIS complications)  
(KIDNEY metabolism) (BLOOD PROTEINS)

38771  
S/194/62/000/005/116/157  
D230/D308

3,1720

AUTHORS: Gosachinskiy, I.V., Yegorova, T.M., and Ryzhkov, N.F.

TITLE: Results of observation of the solar eclipse on  
February 15, 1961 at 21 cm wavelength

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika,  
no. 5, 1962, 38, abstract 5zh264 (Solnechnye dannye,  
1961, no. 7, 70-73)

TEXT: The results of observation of the partial solar eclipse on  
February 15, 1961, are examined. Observations were carried out in  
Pulkovo at 21 cm; a radio telescope with a 4m parabolic mirror and  
a 5 Mc/s band compensation receiver were employed, time constant  
being 1 sec. The curve of the variation of flow of solar radiation  
and also its derivative are given. Two local sources have been  
found with certainty, one connected with the group of spots no. 41  
and the other with the floccule. The angular dimensions of the lo-  
cal source above the spot were 2' x 4'.6 and brightness temperature  
 $2.1 \times 10^{60}$  K; the angular dimensions of the region connected with  
Card 1/2

Results of observation of the ...

S/194/62/000/005/116/157  
D230/D308

the floccule were 1'6 x 3'3 and brightness temperature  $1.2 \times 10^{60}$  K.  
[Abstractor's note: Complete translation].

✓

Card 2/2

RYZHKOV, N.F.; YEGOROVA, T.M.; GOSACHINSKIY, I.V.; BYSTROVA, N.Y.

Attempt to observe radio emission of Seki-Lines' comet (1962e).  
Astro. tsir. no.231:6-8 N '62. (MIRA 16:4)

1. Glavnaya astronomicheskaya observatoriya AN SSSR.  
(Comets—1962) (Radio astronomy)

S/033/63/040/001/003/016  
E032/E514

AUTHORS: Ryzhkova, N.F., Yegorova, T.M., Gosachinskiy, I.V.  
and Bystrova, N.V.

TITLE: Absorption of radiation due to the Sag-A source  
by neutral interstellar hydrogen

PERIODICAL: Astronomicheskiy zhurnal, v.40, no.1, 1963, 17-22

TEXT: The large Pulkovo radiotelescope was used in 1961 to record the continuous spectrum of Sag-A at 21 cm. The beamwidth at half-power points of this telescope was  $0.14^\circ$  and  $5^\circ$  in the horizontal and vertical planes, respectively. The bandwidth of the receiver was 1.5 Mc/s. The average transit curves for Sag-A exhibit the structural details noted by Drake (Nat. Rad. Astron. Obs., USA, Ann.report; 2, 1959). A receiver with a bandwidth of 80 kc/s was used to investigate the absorption of Sag-A emission by neutral hydrogen in the neighbourhood of the sun and in the expanding spiral arm at 3 kpc from the centre of the Galaxy ( $v = -53$  km/s). All the components of the source undergo roughly the same absorption by hydrogen in the vicinity of the sun. The radiation from the south-western part of Drake's ring

Card 1/2

BYSTROVA, N.V.; GOSACHINSKIY, I.V.; YEGOROVA, T.M.; RYZHKOV, N.F.

Neutral hydrogen in the direction of nebula NGC 6618 (Omega). Astron.  
tsir. no.244:1-4 My '63. (MIRA 17:2)

1. Glavnaya astronomicheskaya observatoriya AN SSSR.

L 22429-65 FBD/EWT(1)/EWG(v)/EEG-4/EEG(t) Pa-5/Pae-2/Pi-4 GW/WS

ACCESSION NR: AR5001312

S/0269/64/000/010/0048/0048

31  
B

SOURCE: Ref. zh. Astronomiya. Otdel'nyy vypusk, Abs. 10.51.327

AUTHOR: Bystrova, Ch. V., Gosachinskiy, I. V., Yegorova, T. M., Ryzhkov, N. F.

TITLE: Observations of the radio sources W44 and W28 with high angular resolution on 21-cm waves

CITED SOURCE: Astron. tsirkulyar, no. 269, noyabrya 20, 1963, 1-3

TOPIC: radioastronomy, radio emission, radio source W44, radio source W28, supernova

TRANSLATION: Observations of two surmised remnants of explosions of supernovae were made with an antenna having an angular resolution of 1.5 arc minutes. It was found that the sources are in the form of spherical, somewhat elongated, compact objects. Observational data. Absorption in the radio emission lines of these sources makes it possible to estimate the distance to them. Two new sources have been discovered near W44. I. G.

SUB CODE: AA

EXCL: 00

Card 1/1



L 8622-65 - FBD/EWT(1)/EWG(v)/EEC-4/EEC(t) Pc-5/Pae-2/Pi-4 AFETR/ESD(gs)/  
ESD(dp)/AFWL/SSD/ASD(a)-5/BSO/ESD(t)/RAEM(t) GW/WS  
ACCESSION NR: AR4038680 8/1269/64/000/003/0044/0044

SOURCE: Ref. zh. Astron. Otd. vytp., Abs. 3.61.354

AUTHOR: Bystrorova, N. V.; Gerasimovskiy, I. V.; Yegorova, T. M.; Ryshkov, N. F.

TITLE: Fine structure of the discrete source W43 on 21-cm waves

CITED SOURCE: Astron. tsirkulyar, no. 245(Maya 18), 1963, 3-4

TOPIC TAGS: astronomy, radio astronomy, discrete radio source, neutral hydrogen, radio telescope

TRANSLATION: The high resolving power of the Pulkovo radio telescope ( $7' \times 1''.6$ ) made it possible to directly distinguish the nucleus of the source W43, having a half-width of  $5''.5$  and emitting 25% of the total flux from the source. Observations in the line of neutral hydrogen gave an estimate of distance to the source of  $1.0$  kpc. I. G.

DATE ACQ: 17Apr64

SUB CODE: AA

ENCL: 00

Card 1/1

GOSACHINSKIY, I.V.; YEGOROVA, T.M.; RYZHKOV, N.F.

Results of observations of the solar eclipse of February 15, 1961,  
at 21 cm. wave. Izv. GAO 23 no.3:79-82 '64.

(MIRA 17:11)

RYZHKOV, N.F.; YEGOROVA, T.M.; GOSACHINSKIY, I.V.; BYSTROVA, N.V.

Observations of the galactic center in the continuous spectrum  
at 1420 mc/s frequency and in the ~~hydrogen~~ hydrogen line. Izv. GAO  
23 no.3:3-8 '64.

Calibration observations of some radio emission sources at  
1420 mc/s frequency. Ibid.:25-30

(MIRA 17:11)

BYSTROVA, N.V.; GOSACHINSKIY, I.V.; YEGOROVA, T.M.; RYZHKOV, N.P.

Neutral hydrogen in the region of Omega nebula NGC 6618. Izv. GAO  
23 no.5:111-115 '64.

Fine structure of radio sources W23 and W51 from observations  
with high angular resolving power. Ibid.:116-120 '64.  
(MIRA 17:11)

BYSTROVA, N.V.; GOSACHINSKIY, I.V.; YEGOROVA, T.M.; RYZHKOV, N.F.

Right ascensions and dimensions of, and fluxes from, some  
discrete radio sources observed at a wavelength of 21 cm.  
Izv. GAO 24 no.1:73-76 '64. (MIRA 18:3)

GOSCHENIN, I.V.

The gas-dust ratio in the direction of the nebula NGC 6618 (Omega).  
Astron.zhur. 42 no.5:929-931 S-O '65.

(MIRA 18:10)

1. Glavnaya astronomicheskaya observatoriya AN SSSR.

L 22947-66 EWT(1)/FED CH/WS-2

ACC NR: AP6012736

SOURCE CODE: UR/0033/66/043/002/0284/0290

AUTHOR: Gosachinskiy, I. V.

ORG: Main Astronomical Observatory Academy of Sciences SSSR (Glavnaya astronomicheskaya observatoriya Akademii nauk SSSR)

TITLE: Neutral hydrogen in the region of galactic longitudes from 10° to 40°

SOURCE: Astronomicheskiy zhurnal, v. 43, no. 2, 1966, 284-290

TOPIC TAGS: neutral hydrogen, radial velocity, spiral arm, directivity diagram, galactic plane, galactic rotation

ABSTRACT: The distribution of neutral hydrogen in the Galaxy was investigated with the large radiotelescope of the Pulkovo Observatory on the 21 cm line. Galactic cross sections were made on declinations from -23° to +6° and selected radial velocities from -50 to +90 km/sec. The investigation range covered six spiral arms of the Galaxy. The parameters measured were: the declination of the cross section, the vertical dimension of the directivity diagram, the longitude of the cross section on the galactic plane and the number of radial velocities measured on each declination. On the basis of these parameters curves were drawn characterizing the radial velocities of the spiral arms. Schmidt's model of galactic rotation with the solar distance from the rotation center equal to 8.2 kpc was used for determining the HI concentrations according to their radial velocities. Measured results are represented

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UDC: 523.164.43

L 22947-66

ACC NR: AP6012736

sented graphically in the original article. Each cross section had concentrations at different distances from the galactic plane. The thickness of galactic layers was found to be from 600 to 800 prs with distances between them 1000—1500 prs. The layers are inclined to the galactic plane and are restricted in the longitude. The distant arms showed no layer structure. The author expresses thanks to T. M. Yagorov and N. F. Ryzhkov for help during the observations and S. E. Khaykin, N. V. Bystrov, and Yu. N. Pariyskiy for comments. Orig. art. has: 1 table and 10 figures. [EG]

SUB CODE: 03/ SUBM DATE: 22Nov65/ ORIG REF: 004/ OTH REF: 004/ ATD PRESS: 4237

Card 2/2



L 46879-66 EWT(1) GW/WS-2

ACC NR: AR6016285

SOURCE CODE: UR/0269/66/000/001/0043/0043

AUTHORS: Bystrova, N. V.; Gosachinskiy, I. V.; Yegorova, T. M.; Ryzhkov, N. F. <sup>37</sup><sub>B</sub>

TITLE: Radio observations of three postulated remainders of type II supernova outbursts <sup>2</sup>

SOURCE: Ref. zh. Astronomiya, Abs. 1.51.353

REF SOURCE: Izv. Gl. astron. observ. v Pulkove, v. 24, no. 2, 1965, 202-206

TOPIC TAGS: supernova, radio telescope, cosmic radio source, centimeter wave, thin shell structure

ABSTRACT: The results of observations with the large Pulkovo radio telescope of prolonged nonthermal radio sources W 44, W 28, and W 14 are given. The dimensions of the directivity patterns at the declination of the sources are  $7' \times 1^{\circ}.5$ ;  $7' \times 4^{\circ}.5$ ; and  $7' \times 0^{\circ}.8$ , respectively, for a 21-cm wave. The luminosity distribution for the sources in a continuous spectrum does not agree with a three-dimensional model in the form of a spherically symmetric thin shell. Transmission curves at certain frequencies of the profile of the radio line of neutral hydrogen are given. An estimate of the possible upper limit of the distance to the sources is made. Bibliography of 19 citations. Resume [Translation of abstract]

SUB CODE: 03

Card 1/1 *pls*

UDC: 523.164.4

ACC. NR: AR6035289

SOURCE CODE: UR/0269/66/000/009/0044/0044

AUTHOR: Bystrova, N. V. ; Gosachinskiy, I. V. ; Yegorova, T. M. ; Ryzhkov, N. F.

TITLE: Attempt to observe the hydrogen radio-frequency spectral line at the 1424.736 mc frequency in the Horseshoe and Orion Ori nebulae

SOURCE: Ref. zh. Astronomiya, Abs. 9.51.380

REF SOURCE: Astron. tsirkulyar, no. 355, fevr. 11, 1966, 2-3

TOPIC TAGS: hydrogen line, nebula, ~~Horseshoe nebula~~, ~~Orion nebula~~ *radio emission, cosmic radio emission*

ABSTRACT: Investigations of excited hydrogen radio-frequency spectral lines have been continuing at the Pulkovo Observatory. The RMS of measurement error of  $\pm 0.25$  km/sec is found to be lower than that of the errors determined by the profile of the line. Omega and Orion nebulae were observed in October and November 1965. Profiles were obtained of the absorption lines in these nebulae, as well as of the emission line detected in the direction of the galactic center. The ratio of maximum intensity in the line to the continuous spectrum intensity, line widths at the half-power points, the nebula velocity determined on the basis of

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UDC: 523.164.4

ACC NR: AR6035289

the maximum and of the center of gravity of the line, were calculated for Omega and Orion. The mean kinetic temperature for Omega and Orion were also determined. The results are somewhat different from the data of B. Hoglund and P. G. Mezger for the 5009 mc. The radiation line is narrow,  $\Delta\nu = (270 \pm 70)$  kc, and is formed in a small compact region moving at a velocity of  $-(10 \pm 1)$  km/sec.  
[Translation of abstract] [DW]

SUB CODE: 03/

Card 2/2

GOSAKOVA, G. S.

Dissertation: "An Investigation of Ways of Synthesizing the Alkaloid Yonimbine and Its Analogs." Cand Chem Sci, Moscow Institute of Fine Chemical Technology named M. V. Lomonosov, 28 Jun 54. (Vechernyaya Moskva, Moscow 18 Jun 54)

SO: SUM 312, 23 Dec 1954

GOSAR, L.

The world food problem and overpopulation. p. 5; GEOGRAFSKI OBZORNIK.  
(Geografsko drustvo Slovenije) Ljubljana; Vol. 2, no. 4, 1955.

SOURCE: East European Accessions List (EEAL), Library of Congress,  
Vol. 5, No. 12, December 1956.

GOSAR, L.

Fishing and the problem of nutrition in the world. p. 15.

Periodical: GEOGRAFSKI OBZORNIK.

GEOGRAPHY & GEOLOGY

Vol. 5, no. 4, 1958.

SO: Monthly List of East European Accessions (KEAT) LC

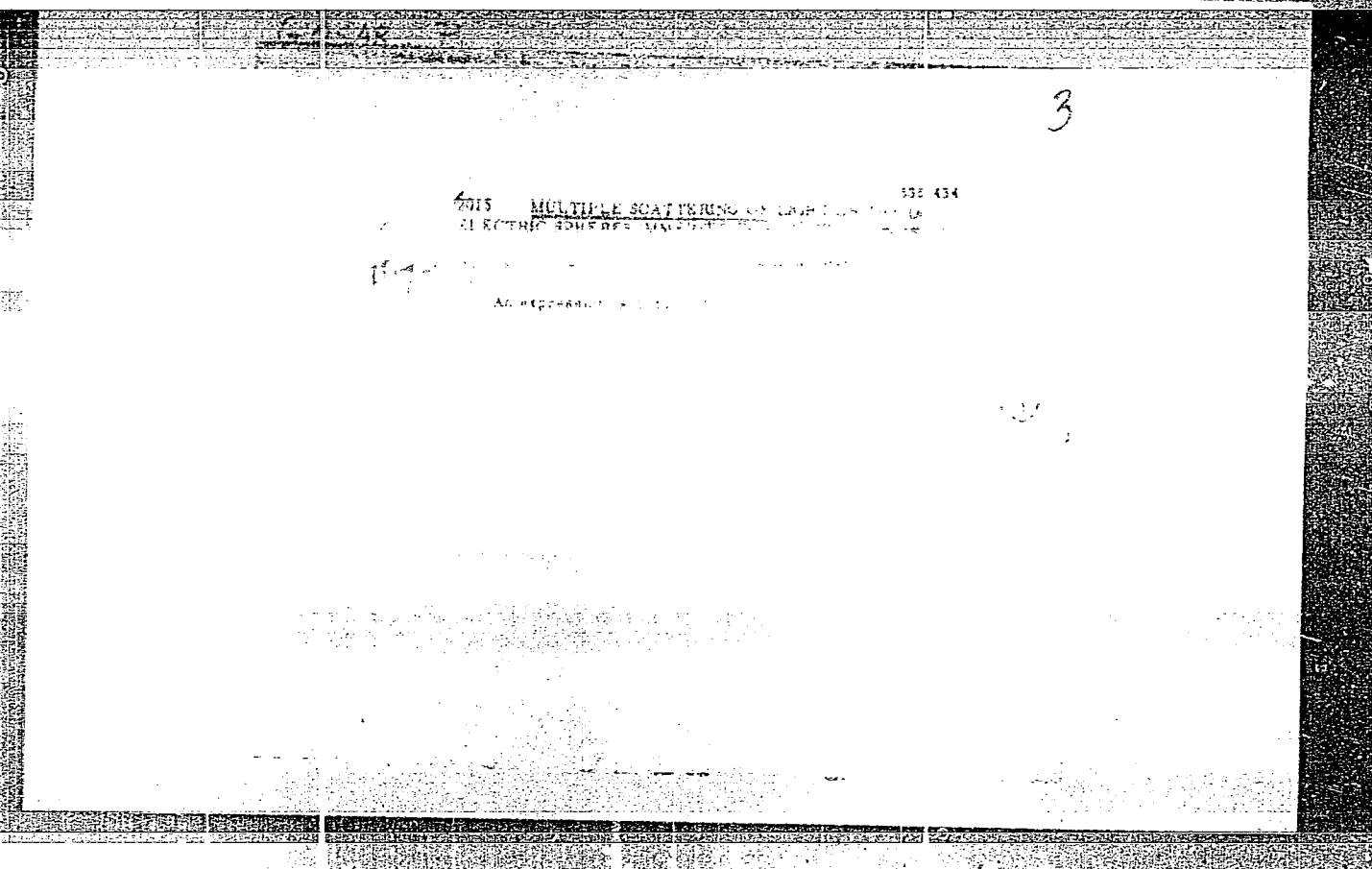
Vol. 8, No. 4  
April 1959, Uncl.

GOSAR L.

Importance of ground water for the economy. p. 12.

GEOGRAFSKI OBZORNIK. (Geografske drustve Slovenije in Zemljepisni muzej Slovenije)  
Ljubljana, Yugoslavia  
Vol. 6, no. 1/2 1959

Monthly list of Eastern European Accession Index (EEAI) LC vol. 8, No. 11  
November 1959  
Uncl.





*Gosar, Peter*

Category : YUGOSLAVIA/Electronics - Semiconductor devices and photoelements

H-8

Abs Jour : Ref Zhur - Fizika, No 1, 1957, No 1745

Author : Gosar, Peter

Title : Transistors as Substitutes for Electron Tubes

Orig Pub : Elektrotehn. vesn., 1955, 9, No 11-12, 384-392

Abstract : No abstract

Card : 1/1

GOSAR, P.

Transistors instead of electronic valves. I. (To be contd.) p. 384.

ELEKTROTEHNIŠKI VESTNIK. (Institut za elektrisko gospodarstvo, Fakulteta za elektrotehniko in Institut za elektroizvedbo) Ljubljana. Vol. 23, no. 11/12, 1955.

So. East European Accessions List Vol. 5, no. 9 September, 1956

CZECHOSLOVAKIA/Optics - Physical Optics.

Abs Jour : Ref Zhur - Fizika, No 6, 1959, 14086

Author : Gosar, Peter

Inst : -

Title : Scattering of Light in Optically Inhomogeneous Media with Nearly Equal Indices of Refraction.

Orig Pub : Razpr. Slov. Akad. Znan. in umetn. Razp. mat., fiz. in tehn. vede, 1956, A7, No 3, s-37-116, 11.

Abstract : After a brief survey of the theory of multiple scattering of quanta and particles in substances, an approximate theory is developed for single scattering of light by a dielectrically-homogeneous sphere, immersed in a homogeneous medium with a slightly different index of refraction, and for a sphere with a dielectric constant that diminishes along the radius in accordance with the Gaussian law. The approximation of geometrical optics is used, and an expression is derived for the probability of deflection

Card 1/4

- 122 -

CZECHOSLOVAKIA/Optics - Physical Optics,

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516410018-5

Abs Jour : Ref Zhur - Fizika, No 6, 1959, 14086

of the light by a given angle in the case of a sphere, whose diameter is large compared with the wave length of the incident light. The calculation of the phase is made for not very large angles of deflection; no account is taken of the refraction at the edge of the sphere. In the wave-optics approximation, an expression is derived for the angular distribution of the scattered light with a count for ordinary scattering, diffraction, and interference between the scattered and diffracted beams. The author then proceeds to describe apparatus and the circuit for an instrument to measure the angular distribution of scattered light, passing through a Christiansen filter under the assumption that the particles (dielectric spheres) are distributed at random in a medium having a nearly the same index of refraction. First, use is made of the geometrical-optics approximation and of the wave-optics approximation for

Card 2/4

COSAR, P.

Transistors as substitutes for electronic tubes. II. (To be contd. )  
p. 194. ELEKTROPRIVREDA. (Zajednica jugoslovenska elektroprivrede)  
Beograd. Vol. 24, no. 6/8, 1956.

SOURCE: East European Accessions List, (EEAL), Library of Congress,  
Vol. 5, no. 12, December 1956.

Distr: hE3d

21  
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1  
/ New method for solving multiple scattering problems in inhomogeneous media. P. Gosar (Inst. Elektroteh. Ljubljana, Yugoslavia). *Nuovo cimento* (10), 5, 487-88 (1957) (in English); cf. *ibid.* 4, 689 (1956). — The multiple small-angle scattering of waves is derived for scattering by dielec. spheres in a homogeneous medium. The angular distribution of the scattered waves is similar to that of electrons passing through thin metal foils. G. L. C.

GOSAR, P.

Electrons in crystals. Obz mat fiz 7 no.3:116-128 '60. (EEAI 10:5)

1. Nuklearni institut "J.Stefan."  
(Electrons) (Crystals)

41078

24.3900  
24.2200'

S/C58/62/000/008/090/134  
A062/A101

AUTHOR: Gosar, Peter

TITLE: On the application of the photomagnetomechanical effect in p-n junctions

PERIODICAL: Referativnyy zhurnal, Fizika, no. 8, 1962, 31 - 32, abstract 8E230  
("Glasnik mat. fiz. astron.", 1961, 16, no. 1 - 2, 125 - 129,  
English; summary in Serbo-Croat.)

TEXT: The author discusses the possibility of applying the photomagneto-mechanical effect (observed by the author some time ago, RZhFiz, 1960, no. 2, 3845) in p-n junctions to measure light intensity. The photomagnetomechanical effect (PMME) is observed in p-n junctions of large surface and of special geometry; the n region of the semiconductor has the shape of a disk of radius a; the p region - the shape of a ring with the inner radius a and outer radius b. One half of the device is placed in a magnetic field parallel to its axis, the other half is partially or entirely illuminated. The photocurrent loops then originated envelop the entire device; there are current components perpendicular to the

Card 1/2

On the application of the...

S/058/62/000/008/090/134  
A062/A101

magnetic field which, by interaction with the current, produces a rotating moment around the axis of symmetry. When deriving the moment of force it is assumed that the longitudinal resistance of the n and p regions may be neglected. If the device is illuminated with a narrow radial bundle of light, perpendicular to the edge of the magnetic field and having a linear generation density  $I$ , then the moment of force  $M = ga^3IB$ . At a uniform illumination with a generation density  $I_0$  in that half of the device in which there is no magnetic field,  $M = ha^4I_0B$ .  $B$  is the magnetic induction,  $g$  and  $h$  dimensionless functions of  $a/b$  which, for  $a/b$  somewhat greater than  $1/2$ , have maximums equal to a few hundredths. The PMME is proportional to the light intensity and can be measured by the rotation speed of the device around the axis of symmetry or by the angle of rotation, if the device is suspended on an electric wire or strip. For the manufacture of the device the same materials may be employed as in photodiodes and photoelements. On a uniform sun light illumination ( $10^5$  lux) of one half of a Si device with an optimum width of the ring, the current density is  $\sim 30$  mA/cm<sup>2</sup> and  $M = 0.2$  dyne.cm if  $a = 1$  cm and  $B = 10^5$  Gauss. By weighing on a strip of phosphorous bronze, illuminations of the order of more than 500 lux can be measured. The use of a quartz wire enables one to measure low illuminations of the order of 10 lux and less.

[Abstracter's note: Complete translation]

Yu. Ravich

Card 2/2



GOSAR, P.

"Physics and chemistry of crystal phosphors." Reviewed by P.Gosar.  
Elektr vest 29 no.8/10:232 '61.

GOSAR, P.

"Liquid seed treatment studies" by O.Lindström. Reviewed by  
P.Gosar. Elektr vest 29 no.8/10:240 '61..

PERME, L.; CERNIGOJ, B.; DOBEIC, J.; PLESNICAR, S.; VADNAL, A.; PEHANI, B.;  
SZAVITS-NOSSAN, O.; ZAJC, B.; LEONARDIS, S.; PEHANI, A.; JAGODIC, F.;  
KERSIC, N.; STARIC, P.; VIRANT, J.; GOSAR, P.; AVCIH, F.; WEDAM, A.;  
KRALJ, A.

New books and periodicals. Elektr vest 31 no.3/5: 113-120 Mr-My  
'64

GOSAR, S.

"Autogenous welding of rails."

Varilna Tehnika, Ljubljana, Vol 1, No 3, 1952, p. 37

SO: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress

GOSAV, Argina, ing.

The standard apartment, a model of quality. Constr Buc  
16 no. 749:3 16 May '64.

1. Head supervisor of the Socola-Nicolina Construction  
Site, Regional Trusts for Housing Construction, Iasi.

BELCIU, Iile; DUMITRU, Vasile, correspondent; CONSTANTIN, A., ing.; GOSAV, Mihai

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The highway bridges over the Eastern Main  
Canal which branches off the Tiszariver at the Tiszabok  
barrage were designed as two-binged reinforced  
concrete howstring arches with cable ties. The cables  
were made of high-tensile steel with a low Young's  
modulus, the consequence of which was a high  
degree of elongation. This caused horizontal and  
vertical deformations of the arches, thereby in-  
fluencing the construction of the arches and the  
final state of the bridge. The conventional methods

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